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EP 0906994 A1

Panel for building floor decking - has wooden support panel with edge tongue and groove connections to allow interlocking with adjacent panels

Patent Assignee: SHEN TECH CO LTD; KRONOSPAN TECH CO LTD; MOEBUS M
Inventors: MOEBUS M

Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
DE 29803708	U1	19980528	DE 98U2003708	U	19980304	199827	B
EP 906994	A1	19990407	EP 97117212	A	19971004	199918	
US 6247285	B1	20010619	US 99262479	A	19990304	200137	N

Priority Applications (Number Kind Date): EP 97117212 A (19971004); US 99262479 A (19990304)

Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
DE 29803708	U1		10	E04F-015/02	
EP 906994	A1	G		E04F-015/04	
Designated States (Regional): AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC NL PT RO SE SI					
US 6247285	B1			E04B-005/02	

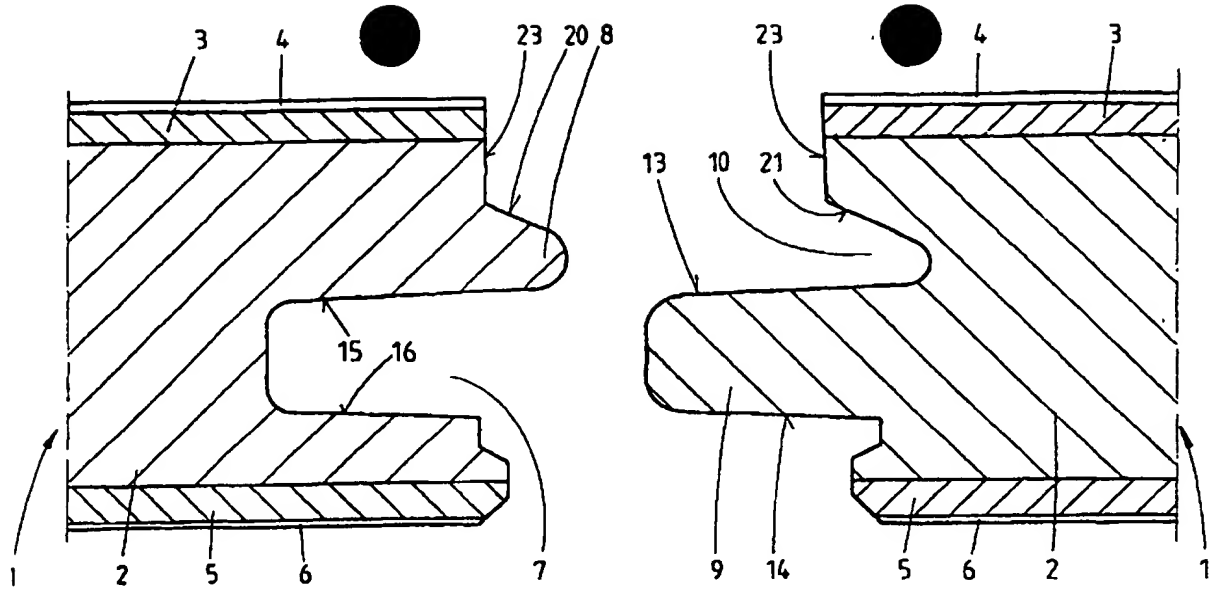
Abstract:
DE 29803708 U

The panel has a wooden support panel (2) with a covering layer (3,4;5,6) on an upper surface. The plate has edge faces with multiple tongue and groove formations to allow the panels to interlock.

Each outer edge face has a groove (7,10) and a tongue (8) which interlock with corresponding formations on adjacent panels and are superimposed. Each lower groove (7) is larger than the respective upper tongue or groove (10). the grooves and tongues can have a tapered cross section or can be wedge shaped.

ADVANTAGE - Has reduced unevenness on surface with reduced risk of damage adjacent to supports.

Dwg.1/2



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EP 0223922 A1

Paper strip impregnated with synthetic resin soln., and dispersions - useful for prodn. of sheathing for furniture parts

Patent Assignee: KAMMERER GMBH F; KAEMMERER GMBH
Inventors: DOTTERMUSCH H; REINHARDT B; DOTTERMUSC H

Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
PT 83153	A	19870227	PT 83153	A	19860806	198713	B
EP 223922	A	19870603	EP 86110511	A	19860730	198722	
DE 3541187	C	19870611	DE 3541187	A	19851121	198723	
JP 62125097	A	19870606	JP 86274248	A	19861119	198728	
NO 8603075	A	19870615				198729	
FI 8603177	A	19870522				198735	
DD 259885	A	19880907				198902	
ES 2000141	A	19871216	ES 861027	A	19860812	198911	
EP 223922	B	19901227				199101	
DE 3676648	G	19910207				199107	
CA 1329072	C	19940503	CA 523131	A	19861117	199423	
JP 95026355	B2	19950322	JP 86274248	A	19861119	199516	
EP 223922	B2	19971029	EP 86110511	A	19860730	199748	

Priority Applications (Number Kind Date): DE 3541187 A (19851121)
Cited Patents: 4. journal ref.; DE 2034263; DE 2551479; DE 2949306; DE 3024394; JP 57000597; JP 57173163; US 3026217 ; JP 57082597; DE 2523051; DE 3015733; EP 84810 ; JP 76116213; JP 82082597; JP 8267647

Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
PT 83153	A		7		
EP 223922	A	G			
Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE					
DE 3541187	C		5		
EP 223922	B				
Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE					
JP 95026355	B2		5	D21H-017/37	Based on patent JP 62125097
EP 223922	B2	G	10	D21H-023/26	

Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE				
CA 1329072	C			D21H-023/24

Abstract:
PT 83153 A

A process is claimed for impregnating paper strips (I) with mixts. of aq. anionic copolymer solns. and dispersions (II) at pH 7.5-10 (8-9). The process uses a cellulose fibre mixt. of high absorptivity and strength, milled to a max. fine-ness of 35 deg. SR. Treatment is carried out with a sizing press in the drying part of the paper machine. Pref. (I) are based on eucalyptus- and pinewood sulphate-cellulose in the ratio 50:50-10:90 (30:70 to 15:85), opt. also contg. synthetic fibres, and pref. milled to 15-25 deg. SR. The mixt. also contains pH-regulators, wet- and dry-st.lengthening agents, resins, fixing agents, rensides, pigments, fillers, etc. (II) comprises copolymer dispersions based on acrylic-acid, -ester, and -nitrile, vinyl acetate, and/or styrene, with particle size below 0.2 micron, low-medium hardness, and min. film-forming temp. below 30 deg., combined with solns. of copolymers of maleic acid with styrene, acrylic acid or esters, etc., in the ratio 100;1-10:1 (25:1-15:1) and with hardening-, viscosity regulating-, anti-adhesion-, and penetrating-agents, etc. Pref., the mixt. contains 0.05-1.5% of a tenside. Pref. the paper is first impregnated from both sides using rollers, and then coated on one side with a doctor blade in a second stage, to give a smooth surface. Further surface treatments (coating, printing, varnishing) are then carried out.

USE/ADVANTAGE - The dried impregnated strips are useful for the covering of furniture parts, by bonding to a rigid underlayer, cutting the composite, and folding to form three-dimensional parts (claimed). They have good strength, flexibility, dimensional stability, and solvent resistance. (First major country equivalent to PT--83153-A)

EP 223922 B

Process for the production of paper webs impregnated with synthetic resins formed from a pulp fibre mixture of high absorbency and strength of eucalyptus pulp and pine sulphate pulp in a ratio of from 50:50 to 10:90, preferably from 30:70 to 15:85 which is beaten to a freeness of a maximum of 35 deg. C SR or optionally is subjected to cutting beating to a freeness of from 15 to 25 deg. SR, optionally in combination with synthetic fibre materials, wherein on the obtained paper web an impregnating liquid consisting of a mixture of aqueous anionic copolymer dispersions on the basis of acrylic acid, acrylic acid esters, acrylonitrile, vinylacetate and/or styrene having an average particle size of less than 0.2 mm and having low to moderate film hardness and a minimum film formation temperature of less than 30 deg. C and customary aqueous anionic solutions of copolymers based on maleic acid anhydride or maleic acid or maleic acid with styrene, acrylic acid and/or Acryl acid esters in a ratio of from 100 to 10:1 calculated on the active substance having a pH value of between 7.5 and 10 is applied using a size press in the drying end of the paper-making machine.

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